8吋全自動表面輪廓儀

Measurement

- Roughness

Parameter	Description
Average (R_a)	This is the arithmetic average deviation of the absolute values of the roughness profile from the mean line or centerline. Also known as *centerline average roughness*. The centerline divides profiles such that all areas above it are equal to all areas below it. (ANSI)
Maximum R_a (Max R_a)	The trace within the cursors is divided into nineteen overlapping sections. Each section is one-tenth of the sampling length. The R_a of each section is calculated, and the maximum is displayed. (ANSI)
RMS (R_q)	The Root-Mean-Square (RMS) or geometric average deviation of the roughness profile from the mean line measured in the sampling length. (ANSI)
Peak (R_p)	The distance between the mean line and the highest peak within the sampling length. (ANSI)
Valley (R_v)	The distance between the mean line and the lowest valley within the sampling length. (ANSI)
Peak/Valley (R_t)	The vertical distance between the highest peak and the lowest valley in the sampling length leveled on the mean line. (Also known as R_{max}, R_y, Maximum Peak-to-Valley Roughness.) (ANSI)
Height 10pt (R_z)	The average height difference between the five highest peaks and the five deepest valleys within the cursors measured from a line parallel to the mean line. (ANSI)
Height 6pt (R_{3z})	The average height difference between the three highest peaks and the three deepest valleys in the sampling length measured from a line parallel to the mean line and not crossing the profile. (ANSI)

Profiling Performance

- Scan Length: 1μm to 5mm
- Scan Speed: 2μm/s to 25mm/s
- Sampling Rate: 5 to 2000 Hz
- Vertical Range: ±13 μm / 0.0078 Å

  ±65 μm / 0.0391 Å , ±327μm / 0.1953 Å
- Vertical Linearity: 10 Å
- Horizontal Resolution 0.1μm @ 1μm/s scan speed
- Maximum Sample Size: 254 x 254 mm